

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number
WO 2005/054265 A2

(51) International Patent Classification⁷: **C07H 17/00**

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(21) International Application Number:
PCT/GB2004/005001

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
29 November 2004 (29.11.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0327721.7 28 November 2003 (28.11.2003) GB

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Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/054265 A2

(54) Title: POLYKETIDES AND THEIR SYNTHESIS

(57) Abstract: Macrolides particularly erythromycins and azithromycins, having O-mycaminosyl or O-angulosaminyl groups, particularly at the 5-position, are produced using a gene cassette comprising a combination of genes which, in an appropriate strain background, are able to direct the synthesis of mycaminose or angulosamine and to direct its subsequent transfer to an aglycone or pseudoaglycone. Synthetic genes may comprise one or more of angMIII, angMI, angB, angAI, angAII, angorf14, angorf4, tylMIII, tylMI, tylIB, tylAI, tylAII, eryCVI, spnO, eryBVI, eryK, tyl Ia and ery G. Glycosyltransfer genes may comprise one or more of eryCIII, tylMII, angMII, desVII, eryBV, spnP and midi